



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

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D139-799-039
Job Sheet 188563



Part No: D139-799-039

Job Qty: 4 pcs

Part Name: AW139 Easy Access Engine Oil Drain



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 1/11/19

Job Tracking No:

Due Date: 3/6/19

Created By: Jesse White

Type: SOLD

Description:

Note: IIN-D139-799 REV.O IPP REV:A 16.10.07 NEW ISSUE DD VERF:JFS IPP REV:B 17.09.18 AS PER IIN
REV.N DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Packaging 1 - Pick Kit	4 pcs	3/6/19	0.00	0.00		Packaging 1 - 1		
							Packaging 1 - 2		
							Packaging 1 - 3		
							Packaging 1 - 4		
							Packaging 1 - 5		
							Packaging 1 - 6		
							Packaging 1 - 7		
							Packaging 1 - 8		
							Packaging 1 - 9		
							Packaging 1 - 10		
							Packaging 1 - 11		
							Packaging 1 - 12		
							Packaging 1 - 13		
							Packaging 1 - 14		
							Packaging 1 - 15		
							Packaging 1 - 16		
							Packaging 1 - 17		
							Packaging 1 - 18		
							Packaging 1 - 19		
							Packaging 1 - 20		
							Packaging 1 - 21		
							Packaging 1 - 22		
							Packaging 1 - 23		
							Packaging 1 - 24		
							Packaging 1 - 25		
							Packaging 1 - 26		
							Packaging 1 - 27		
							Packaging 1 - 28		
							Packaging 1 - 29		
							Packaging 1 - 30		



Container No: S160495



Part: D139-799-039

Job No: 188563

Serial No/Batch: S160495

Revision: 0

Inspector:

Exp Date:

Instructions: FAA STC SR02138SE 18/10/17 TC STC LoA C

DART AEROSPACE LTD.
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CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Plex 1/11/19 8:40 AM dart.white.jesse

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

					Packaging 1 - 31	
					Packaging 1 - 32	
					Packaging 1 - 33	
					Packaging 1 - 34	
					Packaging 1 - 35	
120	QC 4	4 pcs	3/6/19	0.00 0.00	QC 4 - 26	
					QC 4 - 28	
					QC 4 - 38	
					QC 4 - 42	
					QC 4 - 58	
					QC 4 - 6	
					QC 4 - 69	DAS
					QC 4 - 9	46
125	DC - 1 - B4B	4 pcs	3/6/19	0.00 0.00	QC 4 - 46	9-89
					DC - 1 - B4B	MAR 07 2019
					DC - 2 - B4B	
					Packaging 3 - 1 - B4B	DAS
130	Packaging 3-1 - Stock - B4B	4 pcs	3/6/19	0.00 0.00	Packaging 3 - 2 - B4B	46
					Packaging 3 - 3 - B4B	9-89
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
140	QC 21 - FG	4 pcs	3/6/19	0.00 0.00	QC 21 - FG - 21	
					QC 21 - FG - 70	

Part Op 110 - (Pick Kit)

Descriptions: 120 - (QC4- 100% Inspect kits for completeness)

125 - (Document Control) Photocopy bluefile & type labels per PPP D139-799-039 CHG003

130 - Identify and pack for shipping as per PPP D139-799-039

140 - (QC21- Final Inspection - Work Order Release)

DQA: _____ Date: _____



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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN3C3A	Bolt <i>5147510x10</i>	40 Ea (10 ea)	110-Packaging 1 - Pick Kit	<i>5149146x20 5142490x10</i>
AS3208-06	Packing	8 Ea (2 ea)	110-Packaging 1 - Pick Kit	<i>5004689</i>
D5370-1	Fitting	8 pcs (2 ea)	110-Packaging 1 - Pick Kit	<i>5059534</i>
D5373-11	Oil Drain Line	4 pcs (1 ea)	110-Packaging 1 - Pick Kit	<i>5054683</i>
D5373-3	Oil Drain Line	4 pcs (1 ea)	110-Packaging 1 - Pick Kit	<i>5054670x2 5082486x2</i>
D5373-7	Oil Drain Line	4 pcs (1 ea)	110-Packaging 1 - Pick Kit	<i>5054682x3</i>
D5373-9	Oil Drain Line	4 pcs (1 ea)	110-Packaging 1 - Pick Kit	<i>5054678</i>
D5521-041	Oil Drain Hose Assembly	16 pcs (4 ea)	110-Packaging 1 - Pick Kit	<i>5149364x2 5157564x10 5151528x4</i>
D5522-041	Oil Drain Valve Assembly	4 Ea (1 ea)	110-Packaging 1 - Pick Kit	<i>5169306</i>
D5522-042	Oil Drain Valve Assembly	4 Ea (1 ea)	110-Packaging 1 - Pick Kit	<i>5158878</i>
MS21043-3	Nut	40 Ea (10 ea)	110-Packaging 1 - Pick Kit	<i>5149144</i>
MS21919-WDG7	Clamp	8 Ea (2 ea)	110-Packaging 1 - Pick Kit	<i>5149401</i>
MS21919WDG10	Clamp	24 Ea (6 ea)	110-Packaging 1 - Pick Kit	<i>5004854x1 5147573x23</i>
MS27039C1-12	Screw	8 Ea (2 ea)	110-Packaging 1 - Pick Kit	<i>FM135884</i>
MS27039C1-14	Screw	8 Ea (2 ea)	110-Packaging 1 - Pick Kit	<i>FM130412</i>
MS9592-005	Bracket	8 pcs (2 ea)	110-Packaging 1 - Pick Kit	<i>FM138622</i>
NAS1149C0332R	Washer	96 Ea (24 ea)	110-Packaging 1 - Pick Kit	<i>5104354x54 5143145x42</i>
SW-6-TEF	Teflon Spiral Wrap	12 ft (3 ea)	110-Packaging 1 - Pick Kit	<i>FM138592</i>

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Packaging 1 - Pick Kit	AN3C3A	40	88	0
	AS3208-06	8	152	0
	D5370-1	8	22	0
	D5373-11	4	8	0
	D5373-3	4	11	0
	D5373-7	4	7	0
	D5373-9	4	8	0
	D5521-041	16	0	0
	D5522-041	4	5	0
	D5522-042	4	4	0
	MS21043-3	40	880	0
	MS21919-WDG7	8	13	0
	MS21919WDG10	24	26	0
	MS27039C1-12	8	42	0
	MS27039C1-14	8	47	0
	MS9592-005	8	39	0
	NAS1149C0332R	96	3,916	0
	SW-6-TEF	12	79	0

Part Specifications

Specifications could not be found.

Plex 1/11/19 8:40 AM dart.white.jesse

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					Root Cause
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					